

**Table C1. Data quality objectives for analyses of petroleum hydrocarbons in sediments and ribbed mussels.**

<b>Parameters/ QC Measurements</b>	<b>Frequency</b>	<b>Control Limit Criteria</b>
Method Detection Limit	1 per matrix	<p>Target MDL of 10 µg/g for sediments Target MDL of 1 µg/g for ribbed mussels</p> <p>Warning limit - analyst should use best judgement if measured MDLs exceed the target MDLs</p>
Laboratory Method Blank	1 per 20 samples	<p>Warning limit - analyst should use best judgment if analytes are detected at or up to 3 times the MDL.</p> <p>Action limit - no analyte should be detected at &gt; 3 times the MDL.</p>
Surrogate Internal Standards	Each sample	<p>40 -150% recovery. Recommended control limit is &lt; 50% (PD; percent difference) between accuracy-based material surrogate and sample surrogate recoveries.</p>
Matrix Spike	1 per 20 samples	Recovery should be within 50 - 120% for at least 80% of the analytes.
Laboratory Triplicates	1 per 20 samples	≤ 25% relative standard deviation (RSD) for analytes > 10 times the MDL.
Accuracy-Based Materials	1 per 20 samples	≤ 30% (PD) of certified or consensus value on average for analytes > 10 times the MDL.